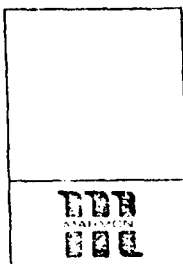


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CERRO COPPER PRODUCTS
A Division of The CERRO-MARMON CORPORATION

P. O. Box 681, East St. Louis, Illinois 62202, 618/337-6000

153940

June 7, 1977

Mr. Garry R. Aronberg
Sverdrup & Parcel & Associates, Inc.
800 North Twelfth Boulevard
St. Louis, Missouri 63101

Dear Mr. Aronberg:

In response to your letter dated May 25, 1977, and attachments thereto, it should be noted that the description of Cerro's production facilities includes billet and tube production whereas your sampling was confined only to our Refinery circuit effluent. The cathodes produced in the Refinery are not necessarily converted to billets, as a major portion of the cathodes produced is sold to other copper users.

Your paragraph describing the electrolytic operation might well state that anodes are processed into cathodes, and that billets are produced in another circuit utilizing cathodes as part of its feed. In any event - billets are not produced in electrolytic cells.

In your paragraph relating to the uses of plant water you refer incorrectly to the quenching and granulating of slag. Our slags are air cooled and not granulated. The balance of the trip report seems in order.

Our Refinery copper production on the dates requested was as follows:

March 30, 1977:	310,000 Lbs.
March 31, 1977:	330,000 Lbs.
April 1, 1977:	271,000 Lbs.
April 2 (Saturday):	None

Our iron tank Parshall Flume flows on those same dates were:

March 30, 1977:	22,800 Gal.
March 31, 1977:	46,200 Gal.
April 1, 1977:	19,200 Gal.
April 2, 1977:	16,000 Gal. (Estimate)

Bear in mind, however, that there is a possible fallacy in relating a day's production volume to that day's effluent. We are dealing with a process operation which spans several weeks and a longer production tonnage and effluent volume relationship would be more meaningful. I suggest one (1) month as a more reliable period.

Mr. Garry R. Aronberg

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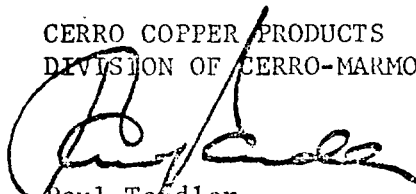
June 7, 1977

Our electrolyte constituents were listed correctly. We do consider this information strictly confidential and do not want any reference made to the constituents.

I trust that the above comments and information will be helpful to you in the completion of your study. I will await your final report and corrected data with interest.

Yours very truly,

CERRO COPPER PRODUCTS
DIVISION OF CERRO-MARMON CORPORATION



Paul Tandler
Plant Manager

PT/bg

bcc: R. E. Conreux W/Attachments
J. C. Johnson "
R. D. Bell "
— File 1104

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